

STENT DELIVERY SYSTEM WITH HYDRAULIC DEPLOYMENT

Juan Carlos Diaz

ABSTRACT

5 A hydraulic stent and stent graft delivery system utilizing at least two different
structural materials to effectuate the easy retention and release of the stent and stent graft,
while maintaining structural and sealing integrity for a pressurizable fluid chamber. An
anti kinking spacer is disclosed which prevents buckling/kinking of the otherwise
unsupported sheath containment section when the catheter assembly is bent such as for
10 insertion a movement to the delivery site. A configuration according to the invention
provides a flexible small or dual diameter delivery system that uses fluid pressure within
the catheter to retract the stent/stent graft containment sheath and allow the delivery and
deployment of the stent/stent graft.